

INTERIM REPORT ON EFFORTS TO LOCATE ABANDONED HAZARDOUS WASTE DISPOSAL SITES IN CONTRA COSTA COUNTY

Report prepared by:
STATE DEPARTMENT OF HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT SECTION
ABANDONED SITE PROJECT

September 1980

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ACKNOWLEDGEMENTS

- The Contra Costa County study was conducted under the direction of Dawn Casteel, Waste Management Specialist.
- CALTRANS was particularly helpful in providing aerial photos.
- Staff of Department of Fish and Game, County Environmental Health Offices, Sanitary District Offices, Regional Water Quality Control Board, and local fire departments provided records and information to Project staff.
- Howard Hatayama and other staff of Hazardous Materials Management Section provided assistance in evaluation and design of clean-up and abatement action. Linda Young prepared the body of this report, edited the site descriptions, and generally provided invaluable assistance.



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and the other two were
the same as the first.
The last was
a small white bird,
about the size of a sparrow,
but with a long tail
and a very long beak,
so long that it
was longer than
the body of the bird.
It had a black
mark on its wing,
and a red spot
on its breast.
The bird was
very tame,
and would sit
on my hand
without fear.
I took it
home with me
and kept it
in a cage
for a few days.
Then I released
it back into
the wild.
I hope it
will find
a good home
and live
a long life.

I. INTRODUCTION

The following report describes an investigation conducted in Contra Costa County by the Department of Health Services' Abandoned Site Project (ASP). The purpose of the project is to locate abandoned hazardous waste disposal sites in California, to determine their relative potential danger to human health or the environment, and to assist in the development of corrective procedures for sites which contain hazardous waste.

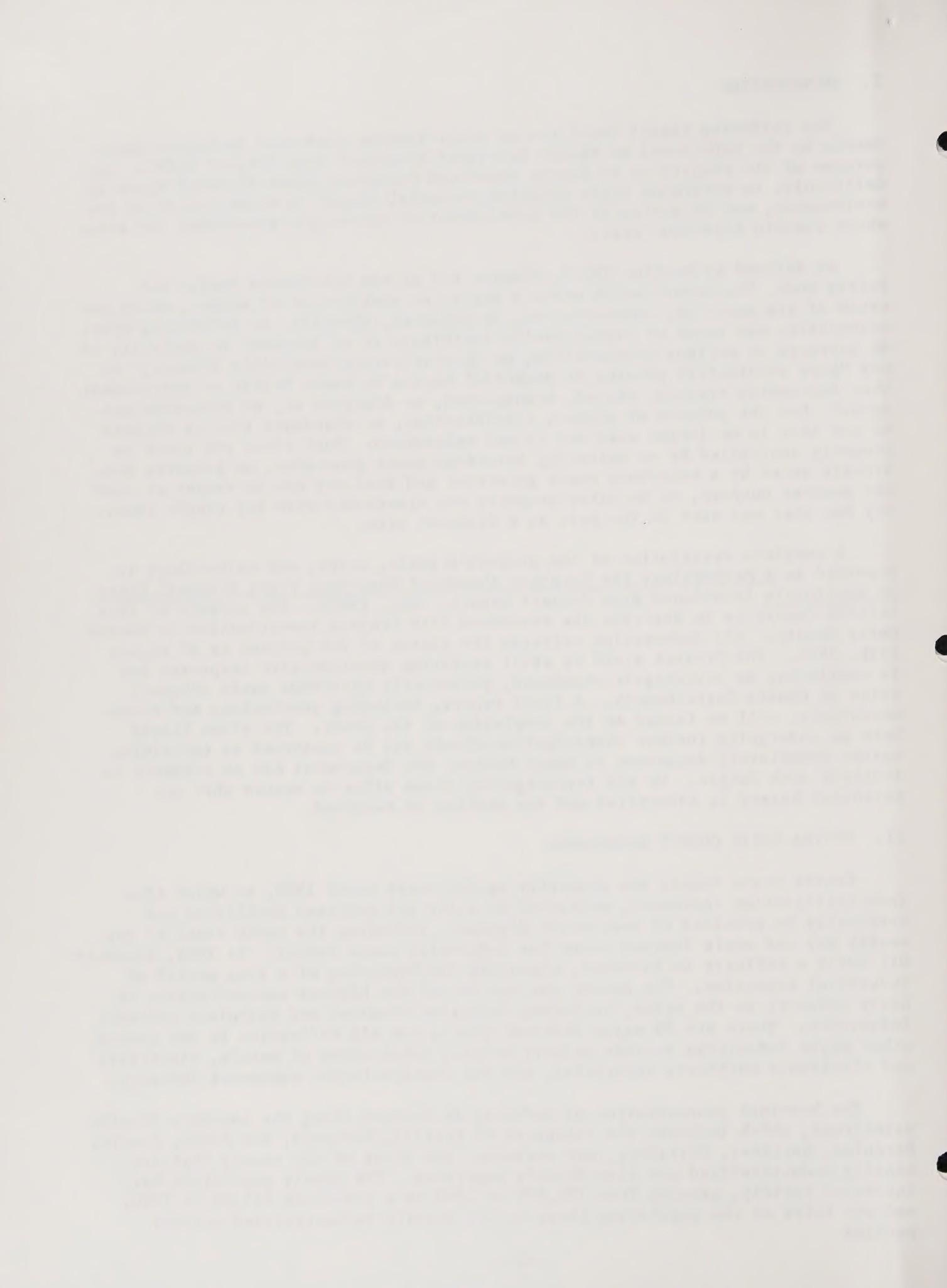
As defined by Section 25117, Chapter 6.5 of the California Health and Safety Code, "hazardous waste means a waste, or combination of wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness," or may "pose substantial present or potential hazard to human health or environment when improperly treated, stored, transported, or disposed of, or otherwise managed." For the purpose of project clarification, an abandoned site is defined as one that is no longer used and is not maintained. Such sites are found on property controlled by an operating hazardous waste generator, on property previously owned by a hazardous waste generator and that may now be vacant or used for another purpose, or on other property not associated with any single industry but that was used in the past as a disposal site.

A complete description of the project's goals, scope, and methodology is provided in A Methodology for Locating Abandoned Hazardous Waste Disposal Sites in California (Abandoned Site Project Report, July, 1980). The purpose of this interim report is to describe the Abandoned Site Project investigation in Contra Costa County. All information reflects the status of the project as of August 19th, 1980. The Project staff is still receiving questionnaire responses and is continuing to investigate abandoned, potentially hazardous waste disposal sites in Contra Costa County. A final report, including conclusions and recommendations, will be issued at the completion of the study. The sites listed here as undergoing further investigation should not be construed as containing wastes immediately dangerous to human health; the Department has no evidence to indicate such danger. We are investigating these sites to ensure that any potential hazard is identified and the problem is resolved.

II. CONTRA COSTA COUNTY BACKGROUND

Contra Costa County was primarily agricultural until 1900, at which time industrialization increased, attracted by water and railroad facilities and eventually by promises of easy waste disposal, including the rapid tides of the nearby bay and ample lowland areas for industrial waste burial. In 1901, Standard Oil built a refinery in Richmond, signaling the beginning of a long period of industrial expansion. The county now has one of the highest concentrations of heavy industry in the state, including extensive chemical and petroleum refining industries. There are 50 major chemical plants and oil refineries in the county; other major industries include primary metals, fabrication of metals, electrical and electronic machinery industries, and the transportation equipment industry.

The heaviest concentration of industry is located along the county's 70-mile waterfront, which includes the cities of El Cerrito, Richmond, San Pablo, Pinole, Hercules, Martinez, Pittsburg, and Antioch. The areas of the county that are heavily industrialized are also densely populated. The county population has increased rapidly, growing from 100,000 in 1940 to a predicted 625,000 in 1980, and one third of the population lives in the heavily industrialized western portion.



As a result of its industrial nature, Contra Costa is the primary industrial waste generator and disposal area in the San Francisco Bay Area. In 1979, 190,000 of the 425,000 tons of industrial waste generated in the bay area came from Contra Costa County. Eighty-seven percent of this waste came from petroleum refineries and chemical plants. In addition to generating substantial waste, Contra Costa County is the depository of industrial waste from as far away as Sacramento, San Joaquin, and Santa Clara Counties. In 1979, 170,000 million gallons of hazardous wastes were deposited in disposal sites in the county.

III. CONTRA COSTA METHODOLOGY

A. Initial Preparation

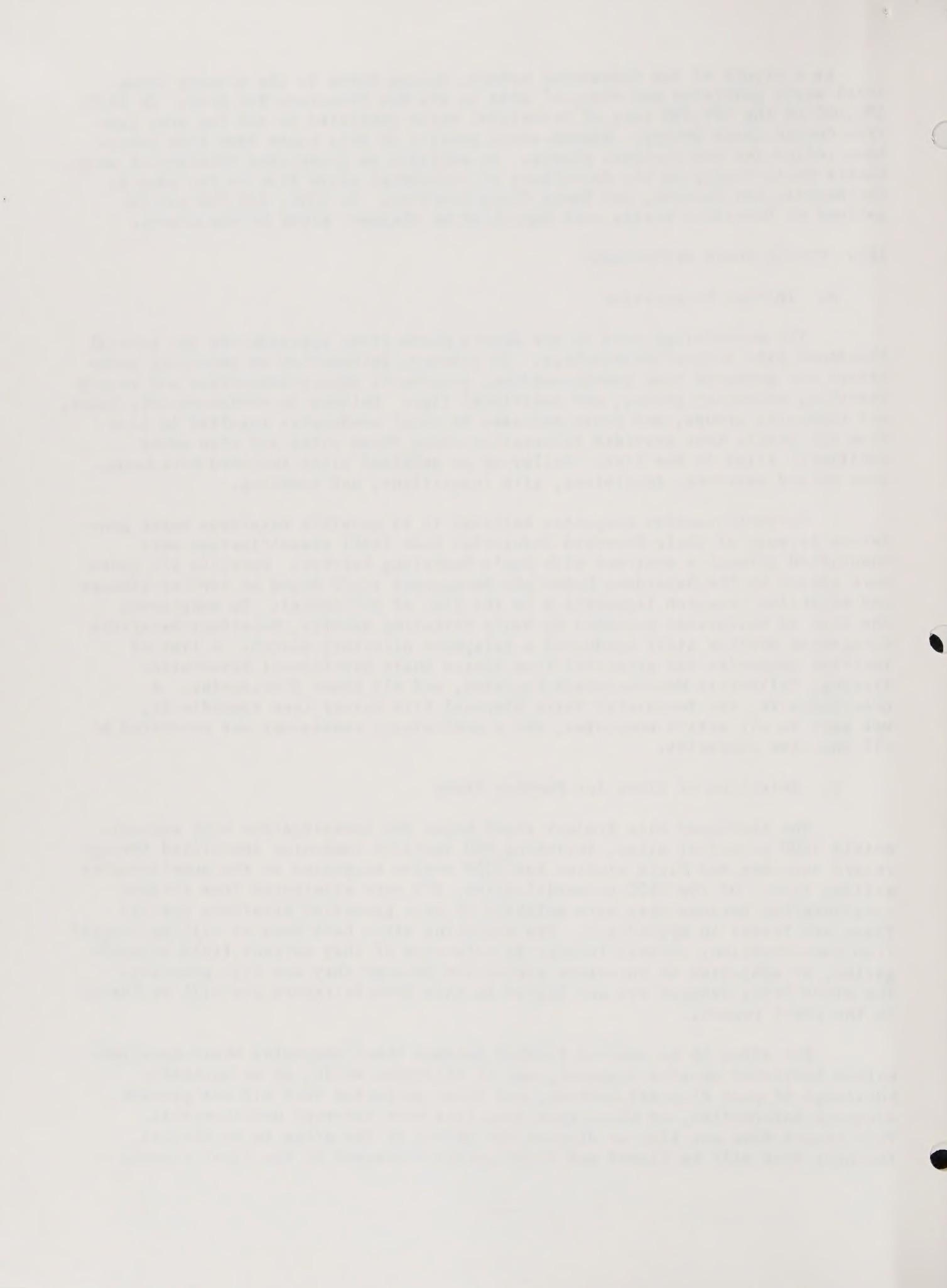
The methodology used in the Contra Costa study approximates the general Abandoned Site Project methodology. In summary, information on potential generators was gathered from questionnaires, government agency interviews and record searches, community groups, and individual tips. Letters to environmental, labor, and community groups, and press releases to local newspapers resulted in tips from the public that provided information about these sites and also added additional sites to the list. Follow-up on selected sites included more intensive record searches, interviews, site inspections, and sampling.

Currently-active companies believed to be possible hazardous waste generators because of their Standard Industrial Code (SIC) classification were identified through a contract with Dun's Marketing Service. Specific SIC codes were chosen by the Hazardous Materials Management staff based on earlier studies and extensive research (Appendix A is the list of SIC Codes). To supplement the list of businesses provided by Dun's Marketing Service, Hazardous Materials Management Section staff conducted a telephone directory search. A list of inactive companies was generated from Contra Costa Development Association listing, California Manufacturers Register, and old phone directories. A questionnaire, the Industrial Waste Disposal Site Survey (see Appendix B), was sent to all active companies, and a preliminary assessment was conducted of all inactive companies.

B. Selection of Sites for Further Study

The Abandoned Site Project staff began the investigation with approximately 1600 potential sites, including 450 inactive companies identified through record searches and field studies and 1150 active companies on the questionnaire mailing list. Of the 1600 potential sites, 318 were eliminated from further consideration because they were unlikely to have generated hazardous wastes. These are listed in Appendix C. The remaining sites have been or will be dropped from consideration, checked further to determine if they warrant field investigation, or subjected to intensive evaluation because they are high priority. The sites being dropped are not listed in this interim report but will be listed in the final report.

The sites to be checked further include those companies whose questionnaires indicated on-site disposal, use of injection wells, or an uncertain knowledge of past disposal methods, and those companies that did not provide adequate information, or whose questionnaires were returned undeliverable. This report does not list or discuss the status of the sites to be checked further; they will be listed and their status discussed in the final report.



Other sites were considered high priority because of the highly toxic or hazardous nature of the wastes, because of the potential for drinking water contamination, or because the site was accessible to the public. Eighteen high-priority sites are discussed in section IV and Appendix D of this report. Research to date has indicated that hazardous wastes were disposed of at all of these sites. Staff of the Regional Water Quality Control Board agreed to investigate those sites which appeared to have an imminent potential for water pollution or to be currently operated as disposal sites in a manner inconsistent with waste discharge requirements issued by the regional board. (See Appendix D3) Other sites were observed to be operating in a manner that was not consistent with the Hazardous Materials Management Section's requirements; these were referred to our regional enforcement staff. (See Appendix E2) Our staff is following up on important indicators and doing additional sampling to establish whether health or environmental threats exist at sites not referred to the regional board and at some of those that were so referred.

Six other high-priority sites are listed in Appendix El. These sites will be scheduled for investigation, as discussed in Section C.

C. Site Inspection

Once a site had been selected for further study, preparation for inspection started. This included more intensive searches of agency records on specific companies and interviews with agency staff involved in past inspections of the sites. At this stage of the investigation, with a more specific list of sites available, interviews proved more helpful than they had in the earlier stage of the study. Library research established the chemical processes and the hazardous wastes likely to have been generated by each company. The County Assessor's office and Real Estate Data Incorporated records were used to determine current and past ownership of land suspected of containing inactive disposal sites. See Appendix E for a complete list of sources used in the study.

During the site inspection, we interviewed representatives of active companies to obtain more specific information about plant processes and past disposal practices. A tour of the plant provided the Abandoned Site Project staff with a view of the company's inactive disposal area. In the case of abandoned sites, permission was obtained to enter the property. Contacts with former employees often provided information about past disposal practices at the site. At both active and inactive sites, we took photographs of and sampled areas which had indication of prior waste disposal.

IV. HIGH-PRIORITY SITES

On the basis of information gathered in the evaluation process, eighteen Contra Costa sites were scheduled for further research, site visits, and evaluation. The sites are at several different stages of Abandoned Site Project action. For example, Cooper Chemical, American Smelting, and Hercules have reached a more advanced stage and are thus representative of the site clean-up process. Several sites are still in an earlier phase of investigation, most awaiting laboratory analysis of samples. Other sites have been referred to Regional Water Quality Control Board for their action as lead agency, because it has been determined that the problems posed by these sites are primarily water quality-related. A discussion of the status of each of these sites as of August 29th, 1980 follows. Separate discussions of each of the sites are presented in Appendices D1, 2, 3, and 4.



1. The following five sites have been investigated, sampling has been conducted, and the results of the analysis have been received. The Abandoned Site Project staff is working with the owners of the properties to better define problems and clean up any waste that may present a hazard to the public health or the environment:

American Smelting
Cooper Chemical
Drew Sales
Drew Vacant Lot
Hercules

2. The following seven sites have been evaluated and sampled. Abandoned Site Project staff is awaiting results of the sampling before proceeding:

Monsanto (Martinez)
Richmond Tank Car Company
Shell/PG&E
Stauffer (Martinez)
Union Collier
United Heckathorn
Western States Chemical

3. The following three sites have been evaluated, found to contain waste that could affect water quality and have been referred to Regional Water Quality Control Board.

Allied Chemical Corporation
Bray Oil
Stauffer (South 47th) Richmond

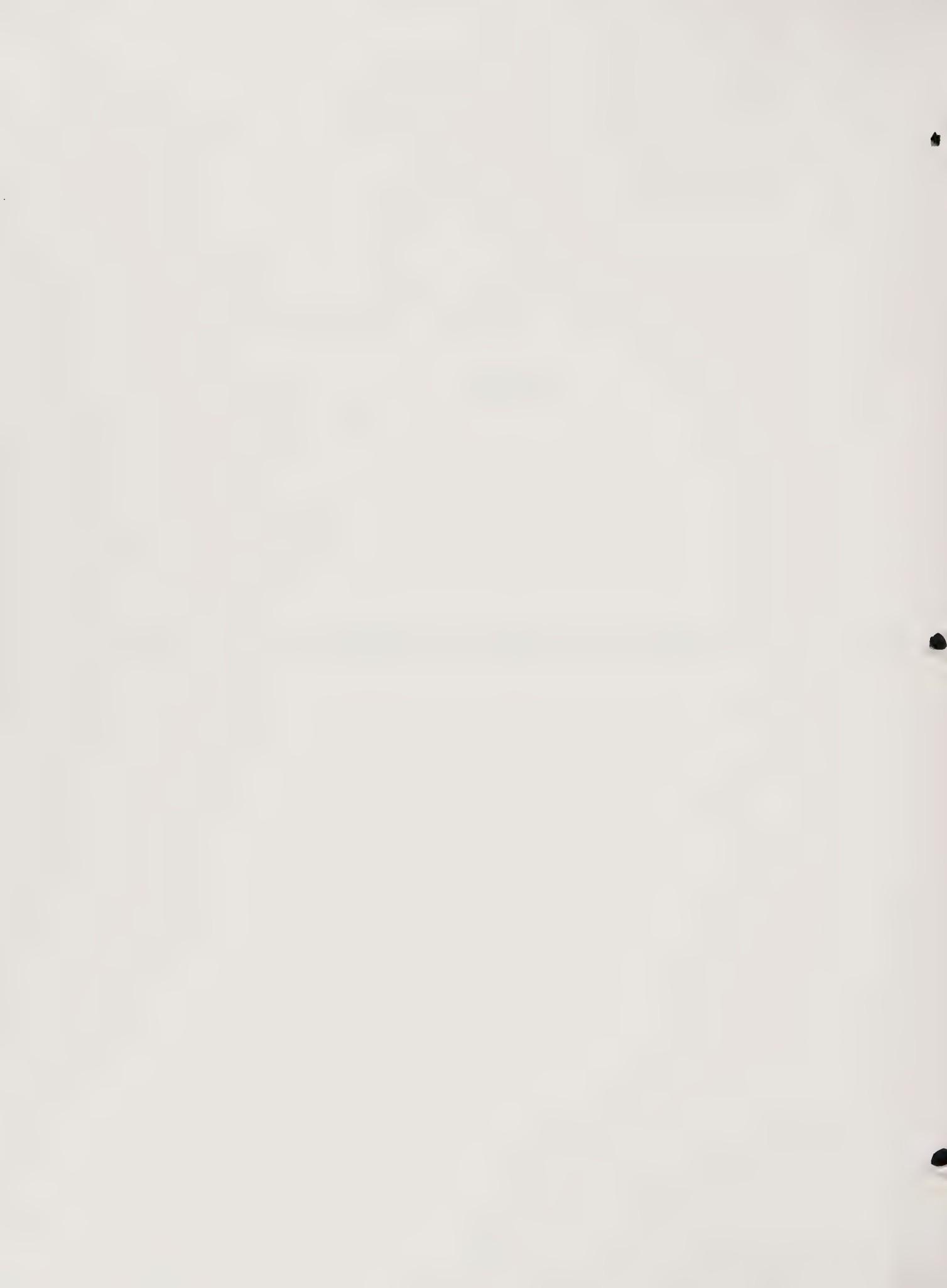
4. The following three sites have been investigated and we found definite indications that hazardous waste is on the property. These sites will be evaluated to determine whether the waste can adversely affect the public health or the environment:

California Cap Company
Chemical and Pigment
Hysol



APPENDIX A

List of SIC Codes of Companies that Received the Industrial Waste Questionnaire



Appendix A
SIC Codes

| | | | | |
|------|------|------|------|------|
| 0161 | 2661 | 3111 | 3471 | 3764 |
| 0721 | 2711 | 3211 | 3479 | 3767 |
| 0843 | 2721 | 3221 | 3519 | 3769 |
| 0849 | 2732 | 3229 | 3523 | 3792 |
| 0851 | 2751 | 3231 | 3524 | 3795 |
| 1011 | 2752 | 3241 | 3531 | 3799 |
| 1021 | 2753 | 3251 | 3537 | 3911 |
| 1031 | 2754 | 3253 | 3573 | 3914 |
| 1041 | 2761 | 3255 | 3623 | 3953 |
| 1044 | 2771 | 3259 | 3624 | 3955 |
| 1051 | 2782 | 3261 | 3629 | 4011 |
| 1061 | 2789 | 3262 | 3631 | 4226 |
| 1081 | 2791 | 3263 | 3632 | 4463 |
| 1092 | 2793 | 3264 | 3633 | 4469 |
| 1094 | 2794 | 3269 | 3634 | 4582 |
| 1311 | 2795 | 3271 | 3635 | 4833 |
| 1321 | 2812 | 3272 | 3636 | 4911 |
| 1381 | 2813 | 3273 | 3639 | 4923 |
| 1382 | 2816 | 3274 | 3641 | 4931 |
| 1389 | 2819 | 3275 | 3643 | 4932 |
| 1411 | 2821 | 3281 | 3644 | 4953 |
| 1422 | 2822 | 3291 | 3645 | 4961 |
| 1423 | 2823 | 3292 | 3646 | 5093 |
| 1429 | 2824 | 3293 | 3647 | 5161 |
| 1442 | 2831 | 3295 | 3648 | 5171 |
| 1446 | 2833 | 3296 | 3651 | 5172 |
| 1472 | 2834 | 3297 | 3652 | 5195 |
| 1473 | 2841 | 3299 | 3661 | 5983 |
| 1474 | 2842 | 3312 | 3662 | 7216 |
| 1475 | 2843 | 3313 | 3671 | 7217 |
| 1476 | 2844 | 3315 | 3672 | 7218 |
| 1477 | 2851 | 3316 | 3673 | 7332 |
| 1479 | 2861 | 3317 | 3674 | 7333 |
| 1481 | 2865 | 3321 | 3675 | 7342 |
| 1492 | 2869 | 3322 | 3677 | 7391 |
| 1496 | 2873 | 3324 | 3678 | 7395 |
| 1499 | 2874 | 3325 | 3679 | 7397 |
| 1611 | 2875 | 3332 | 3691 | 7534 |
| 2261 | 2879 | 3333 | 3692 | 7535 |
| 2262 | 2891 | 3334 | 3693 | 7813 |
| 2269 | 2892 | 3339 | 3694 | 7814 |
| 2295 | 2893 | 3341 | 3699 | 7819 |
| 2431 | 2895 | 3351 | 3711 | 8062 |
| 2435 | 2899 | 3353 | 3713 | 8063 |
| 2436 | 2911 | 3354 | 3714 | 8069 |
| 2439 | 2951 | 3355 | 3715 | 8071 |
| 2491 | 2952 | 3356 | 3721 | 8922 |
| 2492 | 2999 | 3357 | 3724 | |
| 2514 | 3011 | 3361 | 3728 | |
| 2522 | 3021 | 3362 | 3731 | |
| 2542 | 3031 | 3369 | 3732 | |
| 2645 | 3041 | 3398 | 3743 | |
| 2649 | 3069 | 3399 | 3751 | |
| 2653 | 3079 | 3432 | 3761 | |



APPENDIX B

The Abandoned Industrial Waste Disposal Site Survey

ABANDONED INDUSTRIAL WASTE DISPOSAL SITE SURVEY

We are conducting a survey to locate abandoned and/or inactive industrial waste disposal sites in California. As part of this effort, we are currently contacting industries which could produce industrial wastes to determine both current and past industrial waste disposal practices.

Below is a survey form to help collect information which will be used to locate and evaluate disposal sites. Your cooperation in completing this form is appreciated. If you are completing this form for several plants, please use a separate form for each plant your company has operated and/or currently operates in California. If you do not have adequate space, please use another sheet of paper and identify responses by the question number.

If you have any questions, please call or write to Department of Health Services, Hazardous Materials Management Section, 744 P Street, Sacramento, 95814, or phone (916) 322-2337. If necessary, trade secrets may be protected by indicating the number of the responses you wish to remain confidential:

Please return completed form by:

ITEM I.

Location (If different from above): _____

| | | |
|--------|--------|-----|
| Number | Street | |
| City | County | Zip |

ITEM II.

A. Years of operation at this location: 19 ____ to 19 ____

B. Number of employees at this location: _____

C. List names and locations of any other plants your company operates or has operated in California since 1945:

| Name | Location | Years of Operation From: 19 ____ to 19 ____ |
|------|----------|--|
| | | |
| | | |
| | | |

D. Was your current location previously occupied by a different company? Yes No Unknown
If yes, what was the company name or major type of product?

ITEM III.

List and explain your principle products, operations, and/or service, and percent of total production, or operation:



APPENDIX C

List of Potential Sites Eliminated From Further Consideration

**SITES DETERMINED TO BE NO PROBLEM
BASED ON OBSERVATION
CONTRA COSTA COUNTY ON 09/11/80**

| CITY | FACILITY | LOCATION |
|-----------|--|---|
| ALAMO | DIABLO SHEET METAL WORKS | 921 LIVORNA RD |
| ANTIOCH | AMERICAN NEON DISPLAYS | 1317 4TH ST |
| CONCORD | A.F. WAGNER INDUSTRIES ANITA D FOGED CALIFORNIA ROAD RUNNER CA CANDRA TECH INC CHALLENGE MFG. CO CONCORD CABLE STRIPPING EAST BAY NEWSPAPERS INC HEUSSER INSTRUMENTS MACHINE & STAMPING CO | 288 BUCHANAN FIELD RD 970 DETROIT AVE. 2000 LAGUNA STREET 1053 SHARY CIRCLE 1014 SHARY CIRCLE 1025 SHARY CIRCLE 1741 CLAYTON ROAD 4816 CHEROKEE DRIVE 481 CLOVERDALE AVE |
| | MICROWAVE ENGINEERING MINOLTA CORP MODERN PLUMBING CO & SHEE ORIGINAL ENGINEERING & MF R & F CREATIVE MANUFACTUR RUCKER ELECTRONICS SAN LEANDRO HEATING & SHE SCANDIC SPRINGS CO THE SHIDE CO W.D. LEWIS PAINT CO | 288 BUCHANAN FIELD RD 2301 STANWELL DRIVE 2350 WILLOW PASS ROAD 1010 SHARY CIRCLE 2151 ARNOLD INDUSTRIAL HWY 2366 STANWELL CIRCLE 2212 BROADWAY 481 CLOVERDALE 280 BUCHANAN CIRCLE 1090 SHANY CIRCLE |
| DANVILLE | ESTES CORP. PANITEK MFG INC STEPHENSON AIR BRUSH | 360 ROSE ST 26 SORTENO BLVD 34 WINDING GLEN |
| LAFAYETTE | ADPRINT CO. COMPETITION PRESS & AUTO CORVIT PHARMECEUTICALS EL DIABLO FORGE JAY-KAY PRODUCTS CO KAL WALL PACIFIC PEDERSON ELECTRONICS CORP SEAL-SAC INC. | 3406 MT. DIABLO BLVD 3717 MT DIABLO BLVD 3462 GOLDEN GATE WAY BROWN & MT DIABLO BLVD 1041 STUART STREET P.O. BOX 708 1014 BLACKWOOD LANE 3667A MT DIABLO BLVD 1114 GARDEN LANE |

**SITES DETERMINED TO BE NO PROBLEM
BASED ON OBSERVATION
CONTRA COSTA COUNTY ON 09/11/80**

| CITY | FACILITY | LOCATION |
|---------------|---|---|
| LAFAYETTE | SLUGER MACHINE & INSTRUME THE SQUIRE | 1041 STUART ST. 3483 GOLDEN GATE |
| MARTINEZ | CONTEMPO CAMPERS DAN ARENA CO. GENERAL CONVEYER OF NORTH | 2314-D BATES AVE. 126 BUCHANAN CIRCLE 4575 PACHECO BLVD. |
| OAKLEY | DELTA MANUFACTURING CO. | 500 MAIN ST. |
| PITTSBURG | BILL BAILEYS MACHINE SHOP LIGHT METALS ENGINEERING | INDUSTRIAL RD. 3RD AND HARBOR |
| PLEASANT HILL | CALIFORNIA ELECTRONIC MFG MT. DIABLO INDUSTRIES | 3175 N. MAIN P.O. BOX 555 103 GOLF CLUB ROAD |
| RICHMOND | A.M.T. METAL FABRICATIONS AMBROSE WEST INC. ANCHOR MARINE COMPANY ART BRONZES BITUMINOUS PRODUCTS AND A BUTLER MANUFACTURING COMP CALIFORNIA STEEL TANK COM CARMICHAEL CORRUGATED SPE GARWOOD INDUSTRIES, INCOR GIBSON HOLINAN COMPANY OLIN FOIL PACKAGING PACIFIC DRUM CORPORATION PELAFOAM PROTECTIVE COATING CORP REACTION PRODUCTS COMPANY RELIABLE TRANSPORTATION REPLACEMENT WINDOW CORPOR RHODES & JAMIESON LTD. ROBBINS & MEYERS INCORPOR SCOTT LABORATORY | 211 PARR BLVD 760 SOUTH 4TH STREET 111 WEST CUTTING BOULEVARD 1611 WRIGHT AVENUE 8TH AND WRIGHT AVENUE SOUTH 27 AND BUTLER AVENUE 600 HOFFMAN BOULEVARD 700 SOUTH 4TH STREET SOUTH 4TH AND WRIGHT AVENUE 1035 WRIGHT AVENUE 661 SOUTH 10TH STREET 904 WRIGHT AVENUE 432 SOUTH 4TH STREET 1035 WRIGHT AVENUE 829 WRIGHT AVENUE 1030 WRIGHT AVENUE 256 CUTTING BOULEVARD 230 CUTTING BOULEVARD 767 SOUTH 16TH STREET 860 SOUTH 19TH STREET |
| S. PACHECO | BERKELEY DECALS | 110 2ND AVE |



Appendix C 1

SITES DETERMINED TO BE NO PROBLEM
BASED ON OBSERVATION
CONTRA COSTA COUNTY ON 09/11/80

| CITY | FACILITY | LOCATION |
|--------------|---------------------------|-----------------------------|
| SAN RAMON | BADGER ALUMINUM PRODUCTS | 3000 SAN RAMON VALLEY BLVD |
| | BALROSE LABORATORY | 2057 SAN RAMON VALLEY BLVD |
| | GENERAL RADIOISOTOPE PROC | 3120 CROW CANYON ROAD |
| | ORIGINAL ENGINEERING & MF | 3361 FOSTORIA WAY |
| WALNUT CREEK | AIMANS BLDG SPECIALITIES | 1995 S. MAIN STREET |
| | ANTHONY PATIOS INCORPORAT | 2555 N. MAIN ST |
| | APPLIED RADIATION CORPORA | 1210 SPRING BROOK RD |
| | ARCO DIVISION OF HIGH VOL | 2404 N. MAIN STREET |
| | ASSEMBLED PRINTING PRODUC | 1108 SARANAP AVE |
| | DIABLO KITCHENS | 2770 CAMINO DIABLO |
| | HORNBECK POLISHING PAD CO | 1272 ARROYO WAY |
| | KERNEL PUBLICATIONS | 1524 CIVIC DRIVE |
| | LUCHTER INSTRUMENTS | 2363 BLVD CIRCLE PO BOX 683 |
| | NUCLEAR ELECTRONICS LAB | 1370 YGNACIO VALLEY RD |
| | SUN CRAFT ENGINEERING CO. | 2955 N. MAIN ST. |
| | THE MAIL BOX | 1277 ARROYO WAY |



**SITES FOUND TO BE NO-PROBLEM BASED ON
QUESTIONNAIRE RESPONSE**

CONTRA COSTA COUNTY (07)

| <u>CITY</u> | <u>FACILITY</u> | <u>LOCATION</u> |
|-------------|---|--|
| ALAMO | DIABLO SHEET METAL WORKS | 921 LIVORNA RD |
| ANTIOCH | AMERICAN NEON DISPLAYS ANTIOCH FRENCH LAUNDRY ANTIOCH STEEL FABRICATORS B. B. D. TRANSPORTATION C CHRISTENSON MACHINE WORKS DELTA MEMORIAL HOSPITAL DIAMOND HEATING & SHEET M GOLDEN GATE MOVING & STOR HIGGINS FUNERAL HOME INC. HLB INDUSTRIES KELLEY RUBBER & SUPPLY CO PACIFIC ELECTRIC MOTOR CO | 1317 4TH ST 820 W. 2ND VINE LANE P.O. BOX A323 315 8TH ST. P.O. BOX 01469 110 RAILROAD ST. 1211 SUNSET DR. 1310 A ST. P.O. BOX 1926 (SOMERVILLE RD) 1215 SUNSET DR. 610 W. 10TH ST. |
| | PLASTICS LAMINATING CO. S & H SAIL BOAT INC. STANDARD PACIFIC GAS LINE THE HANGMEN PAINTING UVAS QUALITY PACKAGING IN WARNOCK HERSEY INTERNATIO | 114 RAILROAD AVE. RT. 1, BOX 514 P.O. BOX 250 1612 S FRANCISCO COURT P.O. BOX 1369 WILBUR AVE. |
| BETHEL ISL | PRINCE HARBOR THE ANCHOR MARINA VITA PEAT INC. | P.O. BOX S447 1970 TAYLOR RD. HARBOR RD. |
| BRENTWOOD | BRENTWOOD FUNERAL HOME TRAILER KING MANUFACTURIN | 839 FIRST ST. 120 OAK ST. |
| BYRON | BAR-T A RANCH CALICO BUILDING MATERIALS | P.O. BOX Y308 P.O. BOX YD-221 |
| CLAYTON | GRIFFIN TERMITE CONTROL C HEUSSER INSTRUMENTS CO | 5589 MORNINGSIDE DR. P.O. BOX 112 |
| CONCORD | A.F. WAGNER INDUSTRIES ANITA D FOGED | 288 BUCHANAN FIELD RD 970 DETROIT AVE. |



**SITES FOUND TO BE NO-PROBLEM BASED ON
QUESTIONNAIRE RESPONSE**

CONTRA COSTA COUNTY (07)

| CITY | FACILITY | LOCATION |
|---------|--|---|
| CONCORD | BALES MILL & LUMBER COMP BILMER PRINTING SERVICE CALIFORNIA CABINET & FIXT CALIFORNIA ROAD RUNNER CA CANDRA TECH INC CERTIFIED GARMET & LINEN CHALLENGE MFG. CO CONCORD CABLE STRIPPING CONCORD IRON WORKS EAST BAY NEWSPAPERS INC EL DORADO ELECTRONICS EXACT WEIGHT SCALE CO. G & M MFG CO GENERAL ELECTRIC | 925 MONUMENT BLVD 2808 CLAYTON RD 230 OAK STREET 2000 LAGUNA STREET 1053 SHARY CIRCLE 2931 G CLOVERDALE AVE 1014 SHARY CIRCLE 1025 SHARY CIRCLE 280 MARKET STREET 1741 CLAYTON ROAD 601 CHALAMAN 130 S SAN MIGUEL ST. 939 DETROIT AVE 3138 BAKER DRIVE |
| | GLEN CRETE PRODUCTS CO HEUSSER INSTRUMENTS INTERNATIONAL MFG CO MACHINE & STAMPING CO MACHINE & STAMPING CO. MICROBIOLOGICAL MEDIA MICROWAVE ENGINEERING MINOLTA CORP MODERN PLUMBING CO & SHEE ORIGINAL ENGINEERING & MF OWL WOBBLER LITHOGRAPHERS PACIFIC CHEMICAL COMPANY PACIFIC COST AGGREGATES R & F CREATIVE MANUFACTUR RUCKER ELECTRONICS SAN LEANDRO HEATING & SHE SCANDIC SPRINGS CO SIR SPEEDY INSTANT PRINTI SYSTEM DEVELOPMENT & MFG THE SHIDE CO W.D. LEWIS PAINT CO | 558 DAR COURT 4816 CHEROKEE DRIVE 820 MEADOW LANE 481 CLOVERDALE AVE 481 CLOVERDALE AVE 830 CHALLENGE DRIVE 288 BUCHANAN FIELD RD 2301 STANWELL DRIVE 2350 WILLOW PASS ROAD 1010 SHARY CIRCLE 1006 SHARY CIRCLE 3680 DE ROSA COURT 2485 BROADWAY 2151 ARNOLD INDUSTRIAL HWY 2365 STANWELL CIRCLE 2212 BROADWAY 481 CLOVERDALE 1919 SALVIO ST 1009 SHANY COURT 280 BUCHANAN CIRCLE 1090 SHANY CIRCLE |



**SITES FOUND TO BE NO-PROBLEM BASED ON
QUESTIONNAIRE RESPONSE**

CONTRA COSTA COUNTY (07)

| CITY | FACILITY | LOCATION |
|------------|--|--|
| CROCKETT | BALDWIN BAR SUPPLY CALIFORNIA & HAWAIIAN SUG CHALLENGE CONTROLS | 651 LORING AVE. LORING AVE. 516 SECOND AVE. |
| DANVILLE | CONSOLIDATED PLASTICS ESTES CORP. PANITEK MFG INC STEPHENSON AIR BRUSH | SAN RAMON BLVD. 360 ROSE ST 26 SORTEO BLVD 34 WINDING GLEN |
| EL CERRITO | CRAGMONT CONTAINER CORP. SUNSHINE CENTER OF EL CER WARNER TRUCKING | 201 PROFESSIONAL BLDG., EL CERRIT 10750 SAN PABLO AVE 6453 HAGEN BLVD |
| EL SOBRANT | GOYAK CONSTRUCTION CO., C | 5015 A APPIAN WAY |
| HERCULES | STATE DEPARTMENT OF TRANS | REFUGIO, CRK., HWY. 4, & SANTA FE |
| LAFAYETTE | ADPRINT CO. COMPETITION PRESS & AUTO CORVIT PHARMECEUTICALS EL DIABLO FORGE EL SOBRANTE HERALD JAY-KAY PRODUCTS CO KAL WALL PACIFIC PEDERSON ELECTRONICS CORP SEAL SAC INC. SKI CRAFT CO SLUGER MACHINE & INSTRUME THE SQUIRE | 3406 MT. DIABLO BLVD 3717 MT DIABLO BLVD 3462 GOLDEN GATE WAY BROWN & MT DIABLO BLVD 3575 SAN PABLO 1041 STUART STREET P.O. BOX 708 1014 BLACKWOOD LANE 3667A MT DIABLO BLVD 1114 GARDEN LANE 3227 KILBOURN BLVD 1041 STUART ST. 3483 GOLDEN GATE |
| MARTINEZ | A.A. REED & SON ACTION TRUCKING INC. ARMOUR OIL CO. ASTRA PLASTICS COMMUNICATIONS CABLE CO. CONTEMPO CAMPERS | 3063 HAMPTON RD. 4233 ALHAMBRA WY. 900 HOWE RD. 911 ARNOLD INDUSTRIAL WY 281 ARTHUR RD. 2314-D BATES AVE. |



SITES FOUND TO BE NO-PROBLEM BASED ON QUESTIONNAIRE RESPONSE

CONTRA COSTA COUNTY (07)

| CITY | FACILITY | LOCATION |
|----------|---|---|
| MARTINEZ | CONTRA COSTA TOOL & DIE DAN ARENA CO. DELLA ROSA TRUCKING (E & DELTA BAY CONSTRUCTION DIABLO PETROLEUM INC. GENERAL CONVEYER OF NORTH HEINSON CONSTRUCTION HOLLY CORPORATION MARTINEZ UPHOLSTERY SERVI O.L. WILLIS TRUCK LINES P. K. GREENE TRUCKING PACHECO TOOL & DIE R. A. WILSON OIL CO. READY TERMITE CO. | 116-C CENTER AVE. 126 BUCHANAN CIRCLE 3555 PACHECO BLVD. #1 & 2 4080 CABRILHO DR. 4333 PACHECO BLVD. 4575 PACHECO BLVD. 4022 PACHECO BLVD. 020L TERMINAL 2372 PACHECO BLVD. 880 HOWE ROAD 310 BERRELLESA ST. 3909 PACHECO BLVD. 4335 PACHECO BLVD. 50 ADELAIDE DR. |
| OAKLEY | RICHARD E. JONES RIGSBY CRANKSHAFT & ENGIN SLONEKER INC. TELFER TANK LINES INC. TRANSPORT EQUIPMENT CLEAN | 888 HOWE RD. 5236 PACHECO BLVD 213 FAREN DR. P.O. BOX T709 |
| ORINDA | DELTA MANUFACTURING CO. LEIGHTON CONSTRUCTION CO. VIKING HARBOR | 500 MAIN ST. END OF HONEY LANE RUR RT. S2, BOX 470 |
| PACHECO | COAST GAS BURNER CO. DE GRAFFENREID & ASSOC. | 51 BARBARA ROAD P.O. BOX 65 10 HALL DRIVE |
| PINOLE | GLENN COMPANY MCRAE INSULATION CO. INC RIGSBY CRANKSHAFT & ENGIN | 101 BUCHANAN CIRCLE 5702 MARSH DR. SUITE 1 5224 PACHECO BLVD. |
| | ANTHONY AUTO WRECKERS HERCO SERVICES OCU-EASE OPTICAL PRODUCTS THREE BROTHERS CLEANERS | 850 SAN PABLO AVE. 3229 DIABLO CT. 625 TENANT AVE 1730 SAN PABLO AVE. |



**SITES FOUND TO BE NO-PROBLEM BASED ON
QUESTIONNAIRE RESPONSE**

CONTRA COSTA COUNTY (07)

| CITY | FACILITY | LOCATION |
|------------|--|---|
| PITTSBURG | ACCENT COUNTER TOPS ALEXANDER TRUCKING COMPAN APPLIANCE SERVICE ARGO NEON SIGNS BILL BAILEYS MACHINE SHOP CHEVRON U.S.A. DELTA MACHINE GLEN CRETE PRODUCT CO. INDUSTRIAL SHEET METAL J. D. ENTERPRISES JAYS SPORTS LIGHT METALS ENGINEERING LINDSEY CAN CO. MARTINEZ SHEET METAL WORK | 100 BLISS AVE. 2120 HARBOR ST. 366 E 10TH ST. 525 BLISS AVE. INDUSTRIAL RD. 2360 BUCHANON RD. P.O. BOX 1688 4300 EUVORA RD. 430 E. 10TH 581 W 10TH ST. 134 E 10TH ST. 3RD AND HARBOR 566 CLARK ST. 1000 HARBOR ST. |
| | MOUNTAIN CHEMICALS P. D. Q. PRODUCTS PITTSBURG KERN INDUSTRIAL SEATON TRUCKING INC. SEENO BROS. BOAT SHOP SOCIETY OF ST. VINCENT DE SUPERIOR MACHINE SHOP TANK CAR CLEANING COMPANY | 553 CLARK 554 CLARK AVE. 902-928 HARBOR ST. P.O. BOX R687 5 CUTLER ST. 390 CENTRAL AVE. 3RD & HARBOR ST. PORT CHICAGO HIGHWAY |
| PLEASANT H | CALIFORNIA ELECTRONIC MFG CALIFORNIA PALLET CO. DIABLO WOOD MFG CO. MONUMENT PRINTING INC MT. DIABLO INDUSTRIES | 3175 N. MAIN P.O. BOX 555 3175 N MAIN 245-B HOOKSTON RD 1849 CONTRA COSTA BLVD 103 GOLF CLUB ROAD |
| RICHMOND | A.M.T. METAL FABRICATIONS AIR CONTROL AIRCO INC. AMBROSE WEST INC. ANCHOR MARINE COMPANY ART BRONZES ASPHALT SURFACING COMPANY | 211 PARR BLVD 420 OHIO BLVD. 731 W. CUTTING BLVD 760 SOUTH 4TH STREET 111 WEST CUTTING BOULEVARD 1611 WRIGHT AVENUE 22 CARLSON BLVD |



APPENDIX C 2

**SITES FOUND TO BE NO-PROBLEM BASED ON
QUESTIONNAIRE RESPONSE**

CONTRA COSTA COUNTY (07)

| CITY | FACILITY | LOCATION |
|----------|--|--|
| RICHMOND | ATLAS FOUNDRY & MFG. CO. BADGER METER, INC. ELECTR BAY CITIES PAVING & GRAD BIOVATION, INC. BITUMINOUS PRODUCTS AND A BONNER TOWING CO. BRAY OIL COMPANY BROADLINE CORP. BRYCHEM CORPORATION BUTLER MANUFACTURING COMP CAL DETECT CAL-GAS RICHMOND, INC. CALIFORNIA CAP CO. CALIFORNIA STEEL TANK COM | 3701 COLLINS AVE. 150 E. STANDARD AVE. 5124 - HUNTINGTON AVE. 5221 CENTRAL AVE 8TH AND WRIGHT AVENUE 820 W. GERTRUDE 801 WHARF STREET 81 PARR BLVD. 1132 HOFFMAN BOULEVARD SOUTH 27 AND BUTLER AVENUE 101 W. NEVIN AVE. 811 MARKET AVE 47TH ST & HOFFMAN BLVD. 600 HOFFMAN BOULEVARD |
| | CARMICHAEL CORRUGATED SPE DATRONIX DIVISION OF INT'L CORPORA EAST BAY BRASS FOUNDRY EIGHT BALL TRUCKING FILTER PRODUCTS INC. FRANK MELLO CO., INC./MEL GARWOOD INDUSTRIES, INCOR GIBSON HOLINAN COMPANY HARRISON EDWARDS TRUCKING KAWNEER CO. AMERICAN META KENSINGTON LABORATORIES MCDONALD CUSTOM MOLDING NOLL MANUFACTURING CO. OLIN FOIL PACKAGING PACIFIC DRUM CORPORATION PELAFOAM PRECISION CHEMICAL CO. PROTECTIVE COATING CORPOR R & K INDUSTRIAL PRODUCTS RAY W. HAWKSLEY CO., INC. REACTION PRODUCTS | 700 SOUTH 4TH STREET 5221 CENTRAL AVE 522 23RD ST. 1200 CHESLEY AVE. 2717 GOODRICH AVE 860 S 19TH ST 623 S 32ND ST. SOUTH 4TH AND WRIGHT AVENUE 1035 WRIGHT AVENUE 2618 HUMPHREY AVENUE 600 PARR BLVD 5327 JACUZZI ST #H 222 W. RICHMOND AVE. 1900 7TH ST. 661 SOUTH 10TH STREET 904 WRIGHT AVENUE 432 SOUTH 4TH STREET 1011 PRESCO LANE 1035 WRIGHT AVENUE 1945 NORTH 7TH STREET 220 CUTTING BLVD. 840 MORTON AVE. |



SITES FOUND TO BE NO-PROBLEM BASED ON
QUESTIONNAIRE RESPONSE

CONTRA COSTA COUNTY (07)

| CITY | FACILITY | LOCATION |
|------------|---|--|
| RICHMOND | REACTION PRODUCTS COMPANY RELIABLE TRANSPORTATION REPLACEMENT WINDOW CORPORATION RHODES & JAMIESON LTD. RICH-TEX CO. | 829 WRIGHT AVENUE 1030 WRIGHT AVENUE 256 CUTTING BOULEVARD 230 CUTTING BOULEVARD 777 MARKET ST. |
| | RICHMOND PLATING COMPANY SANSOE CONCRETE SPECIALISTS SCHUTZKY DISTRIBUTORS, INC. SCOTT LABORATORY SHAPER LIGHTING PRODUCTS US PEROXYGEN VERNS APPLIANCE WEST CONTRA COSTA RADIOLAND WEST CONTRA COSTA SANITAR | 738 SOUTH HARBOR WAY 656 SOUTH 32ND STREET 60 CASTRO ST. 860 SOUTH 19TH STREET 2343 WELCOME AVE. 850 MORTON AVE 1134 23RD ST 2000 VALE ROAD-BROOKSIDE HOSPITAL END OF PARR BOULEVARD |
| | WILL-CIN TRANSPORTATION | 350 CARLSON BLVD. BLDG B |
| RODEO | JOHN BURTON MACHINE CORP. | 3251 JOHN MUIR PARKWAY |
| S. PACHECO | BERKELEY DECALS | 110 2ND AVE |
| SAN PABLO | FISK TERMITE CONTROL INC J.D. ADAMS CO., INC. PACIFIC DRY WALL CO YOUNG & CO MANUFACTURING | 13561 SAN PABLO AVE 1030 BROADWAY 2631 MCMORROW RD 3022 GIANT RD |
| SAN RAMON | AEROJETT-NUCLEAR DIVISION AEROMETRICS BADGER ALUMINUM PRODUCTS BALROSE LABORATORY GENERAL RADIOISOTOPE PROC ORIGINAL ENGINEERING & MF | 3300 CROW CANYON RD. 300 CROW CANYON ROAD 3000 SAN RAMON VALLEY BLVD 2057 SAN RAMON VALLEY BLVD 3120 CROW CANYON ROAD 3361 FOSTORIA WAY |
| W. CREEK | CALIFORNIA FIBER CONTAINER | 1030 HOMESTEAD STREET |
| W. PITTSBU | SHELL CHEMICAL CO. | E. OF MCAVOY ST.-N. OF SANTA FE R |



SITES FOUND TO BE NO-PROBLEM BASED ON
QUESTIONNAIRE RESPONSE

CONTRA COSTA COUNTY (07)

| CITY | FACILITY | LOCATION |
|------------|---|---|
| WALNUT CRE | AIMANS BLDG SPECIALITIES ANTHONY PATIOS INCORPORAT APPLIED RADIATION CORPORA ARCO DIVISION OF HIGH VOL ASSEMBLED PRINTING PRODUC CANVILLE-PHILLIP DESIGN S DIABLO KITCHENS DIVERSIFIED CONTAINER SYS HORNBECK POLISHING PAD CO KERNEL PUBLICATIONS LECTRAL COMPANY LUCHTER INSTRUMENTS NUCLEAR ELECTRONICS LAB PACIFIC BELTING INDUSTRIE | 1995 S. MAIN STREET 2555 N. MAIN ST 1210 SPRING BROOK RD 2404 N. MAIN STREET 1108 SARANAP AVE 1555 BOTELHO DRIVE 2770 CAMINO DIABLO P.O. BOX 2194 1272 ARROYO WAY 1524 CIVIC DRIVE 1380 JUANITA DRIVE P.O. BOX 23264 2363 BLVD CIRCLE PO BOX 683 1370 YGNACIO VALLEY RD 1280 PINE STREET |
| | PACIFIC CEMENT & AGGREGAT PALLET UNLIMITED SADDLEBACK BUSINESS FORMS SUN CRAFT ENGINEERING CO. THE MAIL BOX | 2485 BROADWAY SOMERSVILLE ROAD P.O. BOX 279 2130 N MAIN STREET 2955 N. MAIN ST. 1277 ARROYO WAY |



APPENDIX D

Description of High Priority Sites



Appendix D1

The following five sites have been evaluated and sampled, and results are available. We are working with the owners of these sites to determine what site clean-up is necessary.



American Smelting
Selby, California

American Smelting and Refining Company (ASARCO) began lead smelting operations at this site in 1886. In the early 1900's, complaints of lead contamination and related problems downwind from the plant forced the company to construct a 600-foot stack. In 1970, ASARCO closed down operations after having been named as the likely cause of numerous livestock deaths due to lead poisoning downwind in Solano County. They left behind more than 600,000 tons of lead smelting slag. A substantial portion of the plant is believed to be built on slag that was used as bay fill.

The site was then used by Virginia Chemical, which was closed after it contaminated the top six feet of soil in its production area. The Regional Water Quality Control Board required the removal and replacement of that soil. In 1975, Wickland Oil purchased the site for development of an oil tank farm.

As the current owners, Wickland Oil will be responsible for clean-up measures on their property. However, this site is unique because a large portion of the slag is tidal land and is the property of the State Lands Commission. We are working with both groups on clean-up of this site.

Samples taken by Abandoned Site Project staff showed high concentrations of numerous heavy metals including lead, zinc, arsenic, cadmium, and chromium. We requested that Wickland Oil conduct a sampling program along their proposed pipeline route to determine the extent of the problem and the measures required if the materials at this site are determined to cause health or water quality problems.

The owner has been very cooperative.



Cooper Chemical Company Site
2 Giant Road
Richmond, California

The Cooper Chemical Company site is currently owned by Weigman and Rose International, Company. The site has been used by several companies, including Utah Construction, Cooper Chemical (for the production of fiberglass catalyst), and National Lead Industries (for warehouse facilities). At one point, the site was apparently used for explosives production, possibly including torpedoes. In 1975, the land was purchased by Weigman and Rose, and it has not been used for industrial production since that time. The site was initially investigated as the result of a tip, which informed ASP staff that in about 1972 unmarked trucks had dumped drums in pits on the property. Investigation revealed that the western area of the property had been used for disposal of drums, liquids, and soil. Efforts to determine who did this dumping have so far proved fruitless. Initial samples showed several heavy metals, including high contents of lead, magnesium, bismuth and zinc.

The current owners have scheduled redevelopment of the eastern 18 acres of the site as a manufacturing complex. Ground has been cleared, revealing some evidence of additional contamination. Department of Health Services, Regional Water Quality Control Board, and Weigman and Rose agreed that we would take samples in the area of proposed development, which would be analyzed at Weigman and Rose's expense by their consultant. The current owners have been extremely cooperative with all phases of the investigation. Numerous two-foot core samples and surface samples revealed a high lead content (1790 parts per million) and other metals, including 500 parts per million of copper and 1190 parts per million of zinc. Traces of PCB's (10 parts per million--below the concentration Environmental Protection Agency requires to be cleaned up) were also discovered. We told Weigman and Rose to remove the soil in the proposed building drainage areas to Class I and Class II sites. Additional samples are being taken to a depth of six inches to ensure that all contamination has been



removed. Samples will also be taken in the west area of the site, which is to be left as a greenbelt area. Results of samples will be used in designing a clean-up and abatement plan. The investigation is currently being directed by Hazardous Materials Management Section in cooperation with Regional Water Quality Control Board.



Drew Sales
Castro Street
near 7th Street
Richmond, California

The site is a fenced inactive salvage operation located on the north boundary of the vacant lot owned by Catherine Berger. Houses are located within several hundred feet of the site. The site was found during an investigation of an adjacent site. We noted that there were numerous barrels, discolored soil, and generally sloppy conditions.

There are 75 to 100 barrels on the site, many unmarked and partially full, some leaking. There were also truck tracks and evidence of dumping of liquid materials. The soil was coated in areas with what appeared to be motor oil.

The results of analysis indicate that there are high levels of heavy metals on-site. We will be working with the owner to determine necessary clean-up measures. A warehouse on the property is currently being used for storage and there is some potential for development of the site.



Drew Vacant Lot
Castro Street
near 7th Street
Richmond, California

This property is a vacant lot now owned by Catherine Berger but used in the past by American Standard and Radiator, producers of porcelain fixtures. American Standard and Radiator was located on the east boundary of the property, and the company used the site for liquid waste disposal evaporation ponds. In 1970 the property was obtained by Charles Drew and his wife Catherine Berger.

The site is unfenced and easily accessible from Castro Street. Houses are located nearby, and scavengers have been seen on the lot. The general area is occupied by Ortho Chevron and residential developments. There is evidence that the lot has been used for disposal of both general household garbage and many types of industrial wastes including half empty, unmarked barrels, slag from an aluminum foundry, powders, and liquids. There are several heavy truck tracks onto the site and evidence that large quantities of dumped liquids have dried and formed salts. There is also a creek running through the property that could have taken waste into the bay.

Abandoned Site Project staff has inspected and sampled the site. Preliminary results indicate high concentrations of heavy metals including zinc, lead, copper, barium, and manganese. We will work with the owner to resolve this and do further sampling of the ponds that were located on-site.



Hercules Powder Company
Railroad Avenue
Hercules, California

This land, currently owned by Hercules Property Ltd., Incorporated and located on the west side of Interstate 80, was previously occupied by California Powder Works, Atlas Powder Works, Hercules Powder Works, and Valley Nitrogen. Fifty acres of the land recently sold to D & S Company for development of condominiums, were once used for explosives production, and also contains four abandoned ponds, three of which are unlined and were part of the waste water treatment system used in fertilizer production by Valley Nitrogen. This area, which also contains numerous foundations of structures used for storage of chemicals and the production of various products, has been sampled and results indicate the presence of waste containing compounds of arsenic, chromium, copper, lead, zinc, and nickel.

Other areas of the site not now scheduled for home development were used until 1976 for the production of nitric acid and other acids, fertilizer, methanol, ammonium and ammonia products. There are five different complexes in this industrial section. In many cases, tanks and pipes were diked, were not emptied, and are now leaking. There is also spent catalyst on the ground, as well as hundreds of unmarked barrels abandoned in 1976 by Valley Nitrogen. Extensive discoloration of soils and pavements and an old disposal area are also evident. United Financial Operations is currently in the process of purchasing a portion of this 300 acre industrial section. They are now operating one methanol plant on the site and have plans for another methanol plant and a coal gasification operation.



We have conducted sampling on the land being considered for residential use. Laboratory results, which are not consistent with results of analysis obtained by D & S, suggest the need for further action at the site, and staff is now working with the owner of the property to design an extensive sampling program to determine the actual extent of the problem and to inspect and sample the industrial section of the property.



Appendix D 2

The following seven sites have been evaluated and sampled. Abandoned Site Project staff is awaiting results of the sampling before proceeding.



Monsanto
1777 Monsanto Way
Martinez, California

This site has had disposal on land and in ponds of solids with the consistency of asphalt that were collected from a "foul water tank." Two ten acre solar ponds received waste from a phenolic plant that has been inoperative since 1963. Another inactive pond contains sludges and solids from phenol plant reactors. Wastes from this area of the site have been discharged into an adjacent slough. In addition to these past disposal practices, the company has had a history of spills. The company has been monitored by RWQCB.

The ASP staff conducted a site investigation, during which core samples were taken at the old ponds and surface soil and liquid samples were taken at various locations, including the slough. We are awaiting the results of those samples before proceeding.



Richmond Tank Car & Manufacturing Co.
Ferry Pt., So. Garrard Blvd.
Richmond, California

Richmond Tank Car and Manufacturing Co. leased this site from the Atcheson, Topeka and Santa Fe Railroad Company to operate a tank cleaning operation from approximately 1950 until 1963. The site was used to clean and sandblast tank cars that carried all types of chemicals, petroleum products, food products, and beverages.

In a preliminary inspection we found two buried metal tanks with surface openings approximately 18" in diameter, several large pools of heavy oil, discolored soil, and large areas with no vegetation. In addition, a former employee reported that between 1950 and 1963 there was a pit, roughly 80' by 20', located on the premises that received wash water. In the early 1960's the pit was lined with gunnite. However, the lining had to be replaced several times due to corrosiveness of the wash water.

Berwind Rail Car Service occupied the site between 1963 and 1969. It has been vacant since the early 1970's. All structures have been torn down and the pit has been filled in.

ASP staff inspected the site with a representative of A.T.S.F., the current owner of the property. We sampled the oily materials that had a strong sulfur odor and appeared to be coming up from the ground in two locations. The liquid in the buried tanks and discolored soils were also sampled. After we have the laboratory analysis of the samples, we will determine future action.



Shell Chemical Pond/P.G. & E.
Willow Pass Road
West Pittsburg, California

Shell Chemical Company maintained a 72 acre evaporation pond on this site from approximately 1950 until 1975 for disposal wastes from production of fertilizers, carbon, catalysts, and adhesives. They also disposed of black, fine, powdery slag material in the area east of the pond. There are approximately 25 acres of the material in 10' high piles.

In 1975, the property containing the pond and the slag disposal area was purchased by PG&E for development of the Pittsburg Power Plant units 8 and 9. The construction of the power plant was delayed and the pond was allowed to dry out. Heavy winds in the area blew large black clouds of material from the dried pond bottom and slag heaps onto neighboring residential areas. Residents complained of irritation of their eyes, throats, and bronchial passages. In 1978, RWQCB recommended that the pond area be kept flooded to control the wind blown dust problem.

The history of the site is well documented in RWQCB files. Other agencies including CAL OSHA, Contra Costa County Health Department, and Bay Area Air Quality Management district have also been involved with health and air quality problems at this site. ASP staff inspected the site and took samples of the pond area and the black powdery slag. Further action will be determined by the sample analysis results. If the material is determined to be hazardous, we will work with the owner to design and carry out necessary clean-up and abatement measures.



Stauffer Chemical Company
100 Mococo Rd.
Martinez, California

Stauffer Chemical has owned and operated this site as an industrial chemical production facility since July 1, 1968. The Mountain Copper Co. was located at the site from 1904 until the time that Stauffer bought the property. Two abandoned cinder piles consisting mostly of iron pyrite roastings remained on the site until 1978. In 1972, RWQCB issued Waste Discharge Requirements to Stauffer for several waste streams, including runoff from the cinder piles. Contents of both cinder piles were sold for fertilizer and cement; the north cinder pile was removed in 1978 and the south cinder pile in 1979. An unknown amount of cinder remains on the property and is now covered with approximately two feet of dirt. The south cinder pile is presently covered with a crop of oats and rye.

Abandoned Site Project staff inspected the site and sampled the north cinder pile site. This pile is located on land now leased from the state and is near the Carquinez Straits. Some cinder is exposed and several areas are covered with a bluish-white precipitate, which appears to result from upward seepage through the underlying cinder. The area of the south cinder pile showed no signs of seepage. Further action is awaiting analysis of five samples taken at the north cinder waste site.



Union Collier
Nichols Road & Port Chicago Hwy.
Pittsburg, California

This site was previously operated by Western States Chemical. Union Collier operated the property from 1962 to 1976. Their principal product was an NPK fertilizer. The raw materials used at the plant were phosphoric acid, sulfuric acid, and ammonia. The site is now abandoned, fenced, and locked, although the property is often broken into and vandalized. Two ponds, still maintained by Union Collier, are on the site to recover and treat rain runoff before it is discharged into the bay. White residue and gypsum piles are also abundant at the site, as are thirty to forty bags of zinc and manganese additives.

Abandoned Site Project staff inspected the site with a former plant manager and located numerous drums containing a variety of materials including sulfur compounds and an unknown defoaming agent. Results of sampling performed are not yet available. Further action will depend on these results.



United Heckathorn
401 Wright Street
Richmond, California

United Heckathorn/Chemwest Inc. occupied the site now owned by Parr-Richmond Terminal Co. from 1957 to 1967. The company formulated and packaged agricultural chemicals, including DDT, Malathion, Phosdrin, and Dieldrin. Both RWQCB and F&G files indicate that the company had extensive waste discharge problems, including two convictions of illegal discharges of DDT wastes into the ship channel adjacent to the property. A security guard who has worked in the area since 1944 agreed that United Heckathorn was a problem area, suggesting that the smell of chemicals was still evident in the area.

The Universal Pigment and Chemical Company, located on the site prior to 1957, may have also contributed to soil contamination. This company had problems with acid waste spillage during the production of Napalm. Record searches at RWQCB, Fish and Game, and County Environmental Health have failed to turn up any information about this company.

The property, located in an industrial section of Richmond, is now patrolled by a security guard, and there is little or no public access. The site was inspected and sampled by ASP staff. We are awaiting the results of the lab analysis of samples to determine the need for further action.



Western States Chemical
Port Chicago Hwy.
Pittsburg, California

Prior to 1964, this site was owned and operated by Western States Chemical Company. However, some of the property was apparently used by Joe Sobotka, who operated a salvage company on the site. In 1964, the land was sold to Union Collier, but the Sobotka family retained mineral rights to the eastern portion where the salvage operation had been located. We understand that waste from Allied Chemical may have been disposed of on this property in the 1950's. The waste at the site has been sampled by ASP staff, and attempts are now being made to contact Mr. Sobotka for a clarification of site use. Further action is pending the results of lab analysis of the samples taken at the site.



Appendix D 3

The following three sites have been evaluated, found to contain waste that could affect water quality, and referred to the Regional Water Quality Control Board.



Allied Chemical Corp.
Bay Point Works
Nichols Road
Pittsburg, California

This site began operating in 1905 as Nichols Chemical Company. In 1920, the company changed its name to Allied Chemical Corporation and has operated under that name since. The site is not located near residential areas. The surrounding area, mostly open fields and marshland, is owned by the U.S. Naval Weapons Station.

The Allied Chemical Corporation site has been used for blending and producing DDT, thiodan, toxaphene, polystyrene cases, hydrofluoric acid, sulfuric acid, lead arsenate, and other acids and fertilizers. Between 1905 and 1976 waste was disposed of in landfills and in several ponds, three of which contain wastes and have been abandoned but not properly closed.

Regional Water Quality Control Board and Fish and Game files document that Allied Chemical Corporation has had a long history of problems including spills, contamination of soil on and off their property, illegal discharges, and generally poor housekeeping practices. They have had numerous clean-up and abatement orders, have had legal action taken against them, and have been forced to conduct several major excavations, soil treatment and diking operations to control or remedy problems resulting from past disposal practices.

ASP staff inspected the site and will interview past plant managers and employees in an attempt to better characterize the material in the landfill and determine the location of any waste hauled off the site.

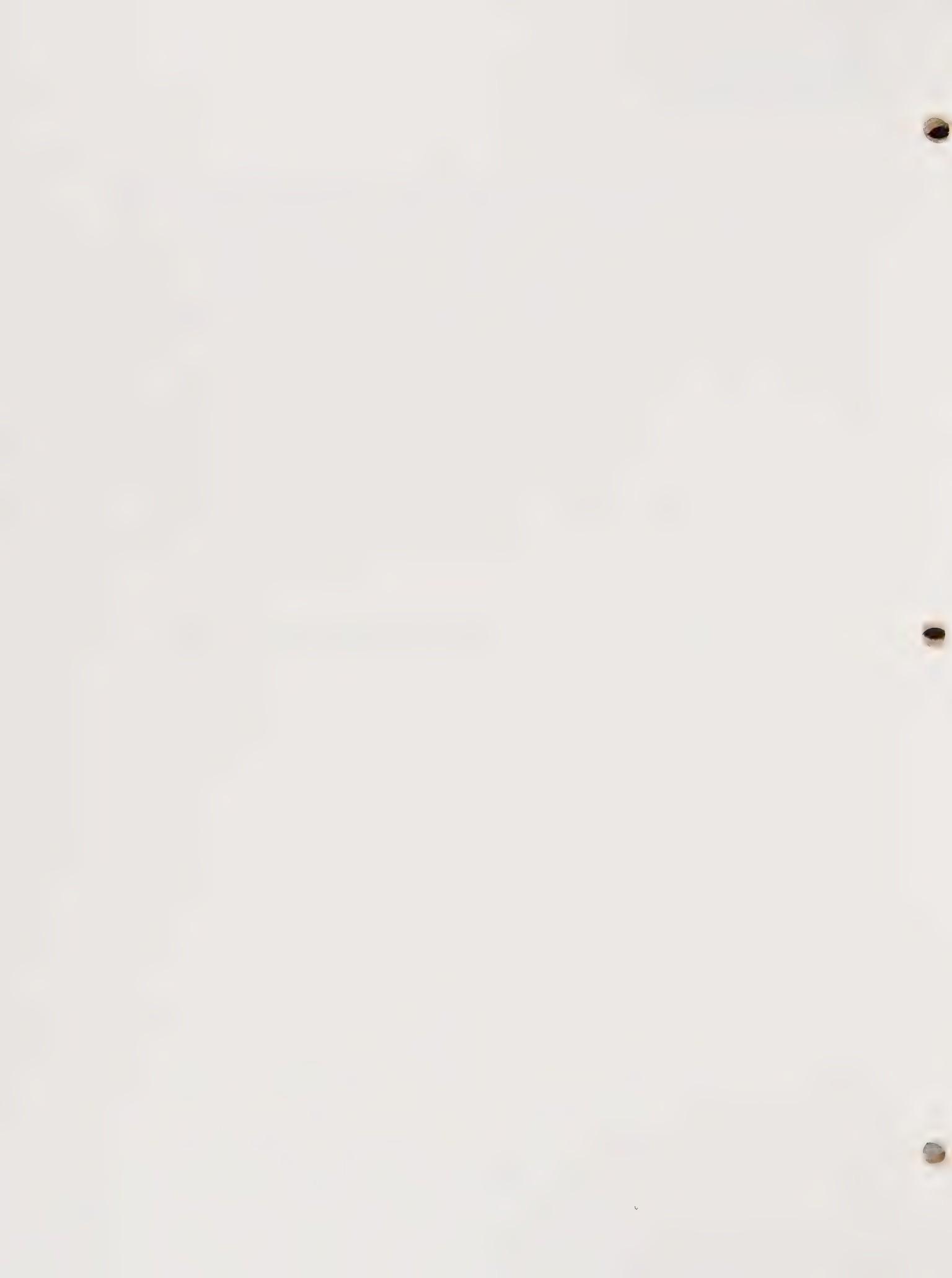
RWQCB plans to review this site to determine if it should be upgraded and permitted as a Class I disposal site. ASP staff will pursue the problems of off-site disposal and contamination.



Bray Oil Company
801 Wharf Street
Richmond, California

The Bray Oil Company currently occupies the site operated by the Kaiser Shipyards during World War II. The RWQCB cited Bray Oil two years ago for oil seepage problems. The company agreed to clean up and take preventative measures to control further seepage, but stated that the oil was leaking from fuel and/or lubrication oil stored or dumped on the site by the Kaiser Shipyards. This year, the U.S. Coast Guard reported more oil seepage. RWQCB staff met with company officials and took several samples of the oil, which was identified as being over two years old. RWQCB is requesting a more extensive sampling plan from the company to locate and confirm the nature and location of the oil. The site is in an industrial area and not accessible to the public.

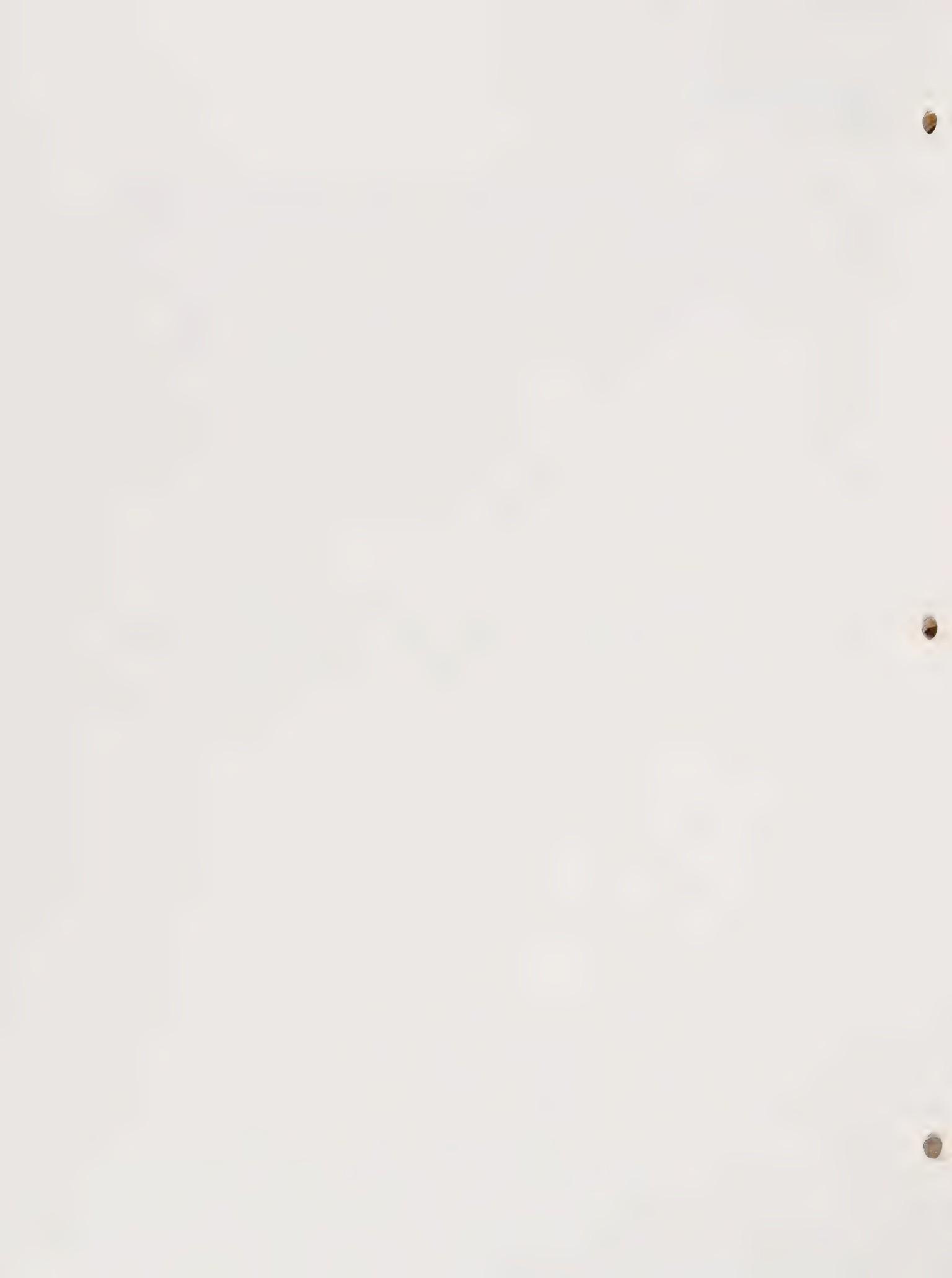
At the present time, RWQCB is acting as lead agency for this site investigation.



Stauffer Chemical
1415 S. 47th Street
Richmond, California

Stauffer Chemical, which has occupied this site for 80 years, formulates, bulk loads, and repackages a variety of industrial and agricultural chemicals. RWQCB has monitored Stauffer for several years as the result of water contamination caused by leaching of materials handled and stored at the site. Most recently, several materials, possibly from this company, have been found in groundwater in the area. It is believed that waste from Stauffer was deposited on adjacent lands, including the UC field station. Aerial photos show surface storage of materials and the presence of unlined ponds. The company has a history of questionable discharges into these ponds, as well as on-site land disposal.

Extensive work has been done by Stauffer to remedy the problems at this site, and they are now working closely with RWQCB. ASP staff has researched records and inspected the site. However, RWQCB has taken responsibility as the lead agency because groundwater contamination appears to be the major problem at this site.



Appendix D 4

We have investigated the following three sites and found definite indications that hazardous waste is on the property. These sites will be evaluated to determine whether the waste can adversely affect the public health or the environment.



California Cap Company
47th St. & Hoffman Blvd.
Richmond, California

The site, currently operated by the University of California as a field station, was previously owned by the California Cap Company. In 1849, California Cap began production of dynamite for gold mining. During the Civil War the company changed to ammunition production, which continued until 1950 when the site was purchased by University of California. One of the principal products used by California Cap was mercury fulminate, which is highly explosive at its 80° melting point, and soluble in alcohol, ammonium hydroxide, and water. Because of the explosive nature of mercury fulminate, the DOT bans its transportation in the dry form.

In 1950, when the University of California burned the land to clear it of weeds, numerous explosions occurred. Staff of the Department of Fish and Game, CAL OSHA, the San Pablo Sanitary District, and University of California, Berkeley all believe that there was land disposal of mercury fulminate along the western border of the property, where UC now has algae ponds. Mercury fulminate deposits might still exist at the site.

In addition to the mercury fulminate, another problem exists at the site. Landfill mud from the adjacent Stauffer Chemical Company is being dug up by UC in its effort to return marsh lands to their original condition. The exposed soil is blue and green and contains large chunks of yellow material. Field Station administrators have evidence of DBCP in the fill.

The ASP staff toured the site with the plant administrator who indicated the assumed location of mercury fulminate deposits. Because of the highly explosive nature of mercury fulminate, appropriate sampling strategies are now being designed.



Chemical & Pigment Company
Port Chicago Hwy & Nichols Rd.
Pittsburg, California

The Chemical & Pigment Co. began operation at this site in 1960. The company manufactures metallic salts used as trace nutrients in commercial fertilizers and as fluxes in the metal plating industry. The waste from the process consists of boiler blowdown, water softener blowdown, acid fume scrubber wastes, and storm runoff from the process and storage areas. During the 1970's, the company installed two collection ponds and currently ships all of its wastes to a permitted disposal site. However, the Chemical & Pigment Company disposed of zinc wastes on its property until 1967, and kept a pile of zinc tailings for some years after that.

In 1969, a criminal complaint was filed against the company for unlawful disposal of highly toxic wastes into waterways. Samples taken in 1975 by the Department of Fish and Game indicated high levels of zinc and copper on the site. In 1975, RWQCB advised the company that soil should be removed from the area adjoining the railroad tracks and from an open field at the southern section of the plant. However, no order was issued, and the contaminated soil may not have been removed.

ASP staff will conduct a joint inspection of the site with RWQCB after we review information to be supplied by the company's attorney regarding closure of the inactive disposal areas. After receiving this information we will schedule a meeting with the company to discuss the problem further.



Hysol
2850 Willow Pass Road
West Pittsburg, California

Hysol Dexter Corporation, a Shell Chemical subsidiary that manufactures adhesives, has been at this site since the 1930's. In 1971, Hysol leased a building on their property to Contra Costa Social Services. In November 1978, fumes from a utility trench to the building got into the building air conditioning system and caused discomfort to the workers. As soon as the trench was covered over, the smell disappeared. CAL OSHA conducted some air and soil sampling and found ethylene to be the major cause of the problem. In August of 1980, fumes from another trench could again be smelled by the employees at Social Services.

RWQCB records indicate that Hysol and Shell dumped their waste in the area around the Social Services building. We have contacted Hysol and plan to inspect and sample the site. Shell Chemical will be contacted to determine if they have any knowledge of waste deposited at the site.



APPENDIX E

Listing of Other High Priority Sites



TABLE E1

HIGH PRIORITY SITES
SCHEDULED FOR INVESTIGATIONFACILITY

Byron Pumping Station
Byron Hot Springs Rd. & Road J4
Byron

PROBLEMS

Leaks in old oil pipeline. Soil is contaminated with oily residue.

Chevron Chemical (Ortho Lake)
940 Hensley
Richmond

Paved area and warehouse built over what was once a holding pond for liquid waste.

Loopers Fishing Weight Co.
536 S. 9th Street
Richmond.

Barrels containing heavy metals, may also have flammable and pressurized materials stored.

Great Western Chemical
800 Wharf St.
Richmond

Paved area over soil potentially contaminated by ferric chloride and other chemicals.

Stauffer Industrial Chemical
550 Maas
Richmond

Slurry containing arsenic allowed to flow to pond. Clean-up ordered but not verified.

Los Medenos
2360 Buchanan Road
Pittsburg

Leaks in old oil pipeline. Soil is contaminated with oily residue.



TABLE E 2

**SITES REFERRED TO
HAZARDOUS MATERIALS MANAGEMENT SECTION
ENFORCEMENT FOR ACTION**

| <u>FACILITY</u> | <u>ADDRESS</u> | <u>CITY</u> |
|------------------------------------|-------------------------|----------------|
| A C T Container | Central & Pittsburg | Richmond |
| Alsco Inc. | 1132 Hoffman Ave. | Richmond |
| Bonner's Auto Wreckers | 820 W. Gertrude | North Richmond |
| Brown & Brown Metal Plating Co. | 3502 Pacheco Blvd. | Martinez |
| Diablo Agricultural & Chemical Co. | Highway 4 & Simms Rd. | Brentwood |
| Ecology Marine | 55 Howe Rd. | Martinez |
| Flintkote - Lime Plant Division | 2300 Pierson Ave. | Richmond |
| F M C Corp. - Niagra Chemicals | Grant Highway & Road 20 | Richmond |
| Barkow Petroleum | Foot of S. Garrard | Richmond |
| Richmond Plating Co. | 738 Harbour Way South | Richmond |
| Rich-Tex Co. | 777 Market St. | Richmond |
| Phillips Petroleum Avon Refinery | Waterfront Rd. | Avon |
| Summer Chemical Co. | 2020 Wright Ave. | Richmond |
| Turf Growers | 2951 Somerville Rd. | Antioch |



APPENDIX F

List of Sources and Contacts in Contra Costa County



Appendix F

Sources and Contacts

in

Contra Costa County

FEDERAL

E.P.A.

U.S. Geological Survey

Army Corps of Engineers

STATE

Fish and Game

Regional Water Quality Control Board

California State University, San Jose

Division of Oil and Gas

State Lands Commission

Department of Aging

Department of Transportation

Department of Water Resources

Epidemiological Studies Laboratory

Resource for Cancer Epidemiology Section

CONTRA COSTA COUNTY

Environmental Health

Planning Department

County Historian

Assessors Office

Agricultural Commission

County Safety Officer

County Development Association

LOCAL AGENCIES & ORGANIZATIONS

A.B.A.G.

B.A.L.I.A.

Air Quality Management District

Fire Departments

Sanitation Districts

League of Women Voters

Labor Organizations

Teamsters

O.C.A.W.

Environmental Groups

Citizens for a Better Environment

West Contra Costa Conservation League

Industry Representatives

U.C. BERKELEY LIBRARIES



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STUDIES LIBRARY

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